

Biology 150 Fall 2020 section PT
 TR 11:00am-12:15pm & T 5:00pm-6:15pm
 Blackboard → <https://courses.miami.edu/>

DATE	Mtgs	Lecture, Workshops and Test Schedule	READINGS (Campbell 11th edition)
8/18	T	1 Introduction, Themes of Biology, and Goals of the Course	How to use Blackboard & Class Website
8/20	R	2 The Scientific Method; Observations & Testing Hypotheses	Chap 1
8/25	T	3 Definition of Life and the Origins of Life	Class web site
8/25	T	Workshop #1 (Welcome & Introductions)	In Blackboard
8/27	R	4 Biological Organization: Atoms, Molecules, & Properties of Water	Chap 2 & 3
9/01	T	5 Organic Molecules & Functional Groups	Chap 4.
9/01	T	Workshop #2 (Origins of Life)	In Blackboard
9/03	R	6 Macromolecules End material for Test 1	Chap 5
9/08	T	7 Protein Isolation & Structure	Chap 5 (pg 75-91)
9/08	T	TEST 1. - 100 points @ 5:00-6:15pm done in Blackboard	In Blackboard
9/10	R	8 Protein	Chap 5
9/15	T	9 Catalytic Reactions & Enzymes	Chap 8 (pg153-162)
9/15	T	Workshop #3 (part 1 - Chemistry)	In Blackboard
9/17	R	10 Cellular Ultrastructure (Prokaryotes & Viruses)	Chap 19 & Chap 27.
9/22	T	11 Cellular Ultrastructure (Eukaryotes).	Chap 6
9/22	T	Workshop #4 - (part 2 - Chemistry)	In Blackboard
9/24	R	12 Cell Membranes End material for Test 2	Chap 7
9/29	T	13 Cell Communication	Chap 11
9/29	T	TEST 2. - 100 points @ 5:00-6:15pm done in Blackboard	In Blackboard
10/01	R	14 Bioenergetics, Metabolism, and ATP	Chap 8
10/06	T	15 Anaerobic Metabolism - Glycolysis	Chap 9
10/06	T	Workshop #5 - Cell Structure & Organelles	In Blackboard
10/08	R	16 Aerobic Metabolism (Krebs) & Electron Transfer Chain	Chap 9
10/13	T	17 Photosynthesis: Light & Dark Reactions of Green Plants	Chap 10
10/13	T	Workshop #6 (Cell Membranes & Signal Transduction)	In Blackboard
10/15	R	18 Mitosis & Meiosis (Cell Divisions) End material for Test 3	Chap 12 & 12
10/19	M	Last Day to Drop a Course	
10/20	T	19 Mendelian Genetics: Linkage, Sex, Multiple Alleles	Chap 14
10/20	T	TEST 3. - 100 points @ 5:00-6:15pm done in Blackboard	In Blackboard
10/22	R	20 Chromosomal Basis of Inheritance & Human Genetics	Chap 15
10/27	T	21 Molecular Genetics: DNA - Replication & Transcription	Chap 18 & 17
10/27	T	Workshop #7 (Energy & Metabolism & Photosynthesis)	in Blackboard
10/29	R	23 Molecular Genetics: Translation, & Genetic Code	Chap 17 & 18
11/03	T	23 Biotechnology, Genetic Engineering, Control of Gene Action	Chap 20
11/03	T	Workshop #8 (Division/Genetics)	In Blackboard
11/05	R	24 Genomes & Their Evolution End material for Test 4	Chap 21
11/10	T	25 Animal Form & Function - & Homeostasis	Chap 40
11/10	T	TEST 4. - 100 points @ 5:00-6:15pm done in Blackboard	In Blackboard
11/12	R	26 Developmental Biology: Principles of Animal Development -	Chap 47
11/17	T	27 Neurophysiology: Neurons and their activities	Chap 48
11/17	T	Workshop #9 (Molecular Genetics)	In Blackboard
11/19	R	28 Muscle Physiology	Chap
	M	Thanksgiving (Mon 11/23-Fri 11/27)	
11/24	T	Reading day	
11/30	M	Final Exams Begin	
12/12	T	FINAL EXAM (120 points) - Tues. Dec 1 @11:00am-1:30pm Final is 2 tests (a test #5 with material since test #4) + Cumulative (100 pts).	in Blackboard

WORKSHOPS: These are small student group (8 to 12 students) sessions of practice problems facilitated by a Biology major/mentor student, who will take attendance, assist your completion of the practice problem sets and questions, and award the 50 points allocated to these workshops for attendance and participation.

Tests will be given on Workshop Tuesdays from 5:00pm to 6:15pm in Blackboard

Workshop Schedule... may be subject to change

	Date	Workshop
1	T Aug 25	Introductions, Assignment of Workshop Groups, Group Dynamics
2	T Sep 01	Origins of Life Research and methodologies Workshop
	T Sep 08	Lecture Test #1 - during workshop meeting time (5:00-6:15pm) in Blackboard
3	T Sep 15	Chemistry Part 1: Biomolecules and Chemical Bonds
4	T Sep 22	Chemistry Part 2: Nucleic acids, proteins, and enzymes
	T Sep 29	Lecture Test #2 - during workshop meeting time (5:00-6:15pm) in Blackboard
5	T Oct 06	Cell Structure, Organelles, and Organization
6	T Oct 13	Cell Membrane and Transport
	T Oct 20	Lecture Test #3 - during workshop meeting time (5:00-6:15pm) in Blackboard
7	T Oct 27	Energy, Metabolism, and Photosynthesis
8	T Nov 03	Cell Reproduction & Mendelian Genetics
	T Nov 10	Lecture Test #4 - during workshop meeting time (5:00-6:15pm) in Blackboard
9	T Nov 17	Molecular Genetics
	T Nov 23	Thanksgiving Recess
	T Dec 01	Combined Lecture Test #5 & Cumulative Final Exam

Note: Attendance in lecture is **NECESSARY** to be successful. In class quizzes will be given daily. The lecture tests will be based solely upon material presented in lecture. Attendance at **Workshops is MANDATORY** to earn the 50 points for the workshops.

Faculty: Dr. Charles Mallery, Merrick Bldg. room 304 - 305-284-3188 - cmallery@miami.edu

Text: *Campbell Biology* by Urry et al, 12th Edition, 2020.

Some additional WEB ADDRESSES:

U of Miami <http://www.miami.edu> & Biology Dept. <http://www.bio.miami.edu>
College of Arts & Sciences <http://www.as.miami.edu>
Blackboard <https://courses.miami.edu>

MAKEUP EXAMS:

University policy on makeup exams is makeup exams can **only** be offered:

1. if a student has participated in an activity approved by the Dean's Policy Council
2. if a student has attended a field trip of another course
3. if a student has been confined to the Health Center

No other excuses will be accepted, unless you see Dr. Mallery before an exam date. The make-ups will be essay type or oral exam and will have a degree of difficulty more than the normal exams.

GRADE: There will be four (4) lecture exams of 80 points each during the semester and a cumulative final exam of 120 points. The lowest grade of the four lecture exams will be dropped. Workshops will be worth 40 points and the daily quizzes during the semester lectures will be worth 100 points for a total of 500 points available. Your final grade will be based upon the total points earned applied against a standard curve [90.0%+ = A+,A,A-, 80%+ = B+,B,B-, 70%+ = C+,C,C-, 60%+ = D+,D,D-, and <60% = F]. Pluses & minuses are listed in the Grading Scale posted in Blackboard.

ACADEMIC ETHICS:

To protect the academic integrity of the University of Miami, to encourage consistent ethical behavior among undergraduate students, and to foster a climate of fair competition all students are bound by the Honor Code. It is assumed that during your virtual testing you will work independently with no supplemental material and will not cheat. The Biology Department has adopted the policy that the penalty for cheating, plagiarism or acquiescence in them shall be FAILURE for the course and possible suspension or expulsion.

Biology 151 is a co-requisite of the course. BIL 151 labs will be held in room SA-101 & 102, just off the main lobby in Cox Science Center.

Charles Mallery